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Woodward-Clyde

Engineering & sciences applied to the earth & its environment

February 28, 1996
6E07013

Ms. Leah H. Evison, Ph.D.
U.S. EPA - Region V
77 W. Jackson Blvd. (HSRW-6J)
Chicago, Illinois 60604

Subject: Albion-Sheridan Township Landfill, Notification of Project Coordinator

Dear Ms. Evison:

This letter is submitted by Woodward-Clyde Consultants (WCC) on behalf of Cooper Industries and Corning Incorporated to notify you that WCC is proposed as the Project Coordinator for the project. This notification is required by section XV, paragraph 57 of the Unilateral Administrative Order (UAO) dated October 11, 1995.

The following provides the names and qualifications of the Project Coordinator and primary support entities and staff.

Project Coordinator: John Seymour, P.E.

Mr. Seymour is a civil engineer with 18 years experience; he has provided engineering consulting for over 10 CERCLA sites and has been the project coordinator on 3 CERCLA landfill sites in Michigan. He has also managed remedial investigations (RI), risk assessments, feasibility studies (FS), remedial design (RD), remedial action (RA) resident engineering, quality assurance officer duties, and all forms of reporting to U.S. EPA and Michigan Department of Environmental Quality.

Project Manager and Backup Project Coordinator: Robert Gibson

Mr. Gibson is a geologist with 11 years experience; he has provided project management for 7 landfill design and/or construction/closure projects. He has also managed RI/FS projects, including landfill projects. Mr. Gibson will manage other aspects of the project for WCC and will assist Mr. Seymour with project coordination duties.

Remedial Design Work Plan Manager: Tim Cook

Mr. Cook is a geologist with 16 years experience, 5 of those years are in the environmental field. He will prepare the RD Work Plan. Mr. Cook has prepared work plans for two other projects under U.S. EPA enforcement actions.

Woodward-Clyde Consultants • A subsidiary of Woodward-Clyde Group, Inc.
38777 West Six Mile Road, Suite 200 • Livonia, Michigan 48152
313-464-1800 • Fax 313-464-1823

Resumes are attached.

Corporate Qualifications

WCC is an international consulting firm that has achieved prominence as a leader in geotechnical, environmental and waste management services. Founded in 1950, WCC has earned a strong reputation with both private-sector clients and governmental agencies. The company is comprised of 2500 personnel, with offices in 30 states, including an office in Detroit (Livonia), Michigan.

WCC has provided RD/RA services for more than 23 landfills in the United States and has provided consulting or construction services at 7 landfill sites in Michigan. WCC is currently providing the RD Work Plan, RD and resident engineering for the J&L Landfill in Rochester Hills and recently finished closure of the Rasmussen Landfill near Brighton where we completed predesign studies, RD, resident engineering and quality assurance officer duties.

The RD Work Plan will be submitted 60 days after the effective date of the UAO in accordance with paragraph 34 of the UAO.

If you have any questions, please call me at (313) 464-1800.

Very truly yours,

John Seymour, P.E.
Project Coordinator

attachments

cc: J. Gray (Corning)
C. Smith (Cooper)
K. Sakowski (MDEQ)
File

TIMOTHY R. COOK

site investigation
geology/hydrogeology
remedial technologies evaluation
subsurface exploration
site remediation
project managment

EDUCATION

M.S./Geological Sciences, University of Wisconsin-Milwaukee, 1980
B.S./ Geology, Western Michigan University, 1978

PROFESSIONAL AFFILIATIONS/CERTIFICATIONS

American Institute of Professional Geologists - Certified Professional Geologist
American Association of Petroleum Geologists - Certified Petroleum Geologist

PROFESSIONAL HISTORY

Woodward-Clyde Consultants, Assistant Project Geologist, 1994-Present
Geraghty & Miller, Inc., Project Hydrogeologist, 1991-1994
Amoco Production Company, Staff Geologist, 1980-1991

REPRESENTATIVE EXPERIENCE

Mr. Cook has 15 years of experience as a professional geologist, 5 years in the environmental field. While serving as a staff geologist for a major American oil company for 10 years, Mr. Cook demonstrated expertise in designing and conducting field investigations, interpreting geologic and engineering data from a variety of sources, and integrating and applying the data to accomplish project objectives. During his five years in the environmental consulting industry, Mr. Cook has applied his background in both the business and technical aspects of geology to conducting and managing site investigations and remediating petroleum-contaminated sites. He has worked with and is familiar with the Michigan UST regulations of Michigan Public Act 451 Part 213 and the state environmental regulations in Act 451 Part 201 and Part 115.

Mr. Cook has served as Project Manager, Task Manager, and Site Investigator on a variety of projects encompassing the investigation of environmental contamination, geotechnical investigation, and remediation of hydrocarbon releases. His project management portfolio of more than 60 projects includes leaking underground storage tank sites, industrial sites, a former refinery sites, and several oil and gas exploration/production/pipeline sites. As a Project Manager, Mr. Cook has considerable applied experience with the successful managing of multi-disciplined projects. His knowledge of the investigation and remediation process, combined with his acquired business sense, has resulted in a consistent record of completing projects on time and within budget.

Mr. Cook's technical capabilities include design and implementation of site investigations, interpretation and documentation of geological, engineering and chemical data, field design testing of remedial systems, development of innovative and cost-effective remedial strategies, and installation, operation and monitoring of remedial systems. His repertoire of field techniques, gained at over 50 sites, includes: examination and geologic description of soil and rock samples, soil and groundwater sampling using hollow-stem auger and earth-probe drilling techniques, vertical groundwater profiling, monitoring well construction, well gauging and sampling, aquifer testing, hydrocarbon recovery testing, and vapor sampling, packer testing and vane shear testing.

Selected project experience with Woodward-Clyde and other employers includes:

- Successfully developed remedial/closure strategies at over 30 leaking underground storage tank sites in Michigan. These remedial/closure strategies include: active remediation of soil and groundwater where appropriate, the innovative use of technically appropriate alternatives to active remediation such as risk assessment, leachate testing or passive bioremediation, and the creative application of existing statutory avenues for establishing clean-up goals. These innovative remedial/closure strategies resulted in a potential savings of 50 percent of the cost of remediation and closure to clients per site. Solicited client involvement to select the most cost-effective solution to meet the client's objectives.

- Served as the Project Manager for the construction and installation of eight innovative remedial systems at petroleum-contaminated sites in Michigan. The remedial systems installed included two air sparging/vapor extraction systems, two dual phase pump-and-treat systems, two combination systems that utilized soil venting and groundwater pumping and treatment, one biosparging system, and one soil vapor extraction system. Successfully coordinated the design, permitting, equipment purchasing, construction, and system installation phases of the remedial projects. Completed the projects on time and within budget under tight time constraints.

- Served as the Project Manager for the efficient operation of two dual phase pump-and-treat remedial systems using liquid-ring pump technology at retail gasoline service stations in Michigan. Developed an operation and maintenance program that resulted in a 20 percent decrease in system downtime. Developed a monitoring strategy to evaluate the progress of the site cleanup, which focused on the early identification of achievable asymptotic contaminant removal rates. This strategy minimized the costs of site remediation over the life cycle of the project by minimizing the time the active remedial system operated.

- Successfully negotiated with the Michigan Department of Natural Resources to reduce the scope of site investigations at several sites, by presenting a detailed interpretation of the site hydrogeological characteristics and the distribution of the chemical constituents. The negotiations resulted in an average cost savings to the client of $3,000 to $5,000 per site.

- Served as the Project Manager for the remedial investigation at a petroleum exploration and production site in Michigan. Investigated the impact of crude oil constituents in soil at a central tank battery facility. Through a detailed evaluation of local and regional geologic data, convinced the Michigan Department of Natural Resources that groundwater was not impacted at the site, saving the client approximately $16,000 in site investigation costs. Documented the results of the site investigation and developed state-approved remedial alternatives.

- Served as the fieldwork Task Manager for a $150,000 hydrogeological site investigation at a landfill site near Lansing, Michigan. Successfully completed the fieldwork, hydrogeological study report and groundwater monitoring plan within budget and on-time under tight time constraints from the Michigan Department of Environmental Quality.

- Served as the Task Manager for the remedial investigation of a former refinery site included on the Michigan Public Act 307 list. Was responsible for critiquing a prior consultant's soil boring and monitoring well network, developing the geological framework of the complex glacial deposits, and interpreting the existing chemical data to understand the lateral and vertical extent of crude oil and distillate constituents. Developed a cost-effective, comprehensive work plan to characterize the lateral and vertical extent of impacted soil, groundwater, and surface water. Compared to the approach used by the prior consultant, this approach saved the client approximately 30 percent of the cost of a supplemental site investigation.

- Coordinated and implemented the innovative use of an earth probe, mounted on an all-terrain vehicle (ATV), to conduct soil and groundwater sampling to characterize a waste disposal area at a former refinery site, thereby reducing the cost of the sampling program by $20,000 compared to conventional hollow-stem auger drilling, monitoring well installation, and sampling. Use of the ATV-mounted earth probe was effective for optimizing the placement of soil borings to properly characterize the waste disposal area, an area that had steep and variable topography and was heavily wooded.

- Served as the fieldwork Task Manager during a remedial action at a site contaminated with polychlorinated biphenyl (PCB)-laden oil. Used innovative field screening technology, PCB immunoassay, to limit the amount of soil excavated and disposed and the number of analytical laboratory samples needed to confirm cleanup. This innovative approach resulted in a 50 percent savings of laboratory analytical costs, and an approximate 25 percent reduction in the costs for soil removal and disposal. The remedial action resulted in a state-approved site closure which facilitated the redevelopment of the property.

- Served as site geologist at over 20 exploration and production drilling well locations in Texas and Michigan. Coordinated well logging, drill-stem testing, and coring operations and prepared geological well logs from drill cuttings.

- Served as Project Geologist and Site Investigator for a geotechnical investigation in support of a bedrock tunneling project in Dearborn, Michigan. Provided geologic description and interpretation for over 1,500 feet of limestone and dolomite core. Provided interpretation of regional fracture trends and impact on Tunnel Project.

- Served as field geologist for the successful installation of inclinometers at two xylene pipeline river crossings. The inclinometers were used to measure slope stability to evaluate potential impact to the pipeline.

- Examined drill cuttings and prepared detailed lithologic logs for over 15 exploration and development wells in Texas in both siliciclastic and carbonate formations. Examined whole care samples and prepared detailed lithologic and structural logs for over 25 exploration wells in Texas and Michigan in both siliciclastic and carbonate formations.

- Managed multi-disciplined exploration and development projects in four geological trends in Texas and three geological provinces in eastern Asia and Indonesia. Responsible for geological interpretation, including regional trend analysis and prospect generation, and for integration and application of structural, stratigraphic, petrophysical, geophysical, and geochemical information to attain business objectives. Was also responsible for the coordination of team members who used geophysical, engineering, and economic information and models to develop action-oriented recommendations to upper management.

ROBERT G. GIBSON

hydrogeology
project management
site investigation
feasibility studies

EDUCATION

M.S., Geology, Lehigh University, 1985
B.S., Geological Sciences, Lehigh University, 1983

PROFESSIONAL HISTORY

Woodward-Clyde Consultants, Senior Project Geologist, 1992 to present
Woodward-Clyde Consultants, Project Geologist, 1985 to 1992

REPRESENTATIVE EXPERIENCE

Mr. Gibson's experience in waste management includes a wide variety of multi-disciplinary projects at industrial facilities and inactive hazardous waste sites. He has managed projects involving site assessment, remedial investigation, risk assessments, and feasibility studies. Mr. Gibson has represented industrial clients in technical negotiations and presentations involving state and federal regulatory agencies. Specific professional experience includes project work in the following areas:

- Managed closure, postclosure, and remediation activities at Flying Cloud Sanitary Landfill in Eden Prairie, Minnesota. Tasks on this project include closure of an existing landfill, postclosure monitoring and maintenance, cost estimates for financial assurance, public relations, methane extraction/remediation, review and evaluation of the barrier well system, including a health risk assessment.

- Managed an RI/FS of four landfills at an Air Force Base in Northern Michigan. The project involves the evaluation of groundwater and surface water contamination from the on-site disposal areas and evaluation of groundwater and physical isolation remedial alternatives.

- Managed an RI/FS at an active industrial facility in western New York State. The project involves delineation of PCBs, mercury, and volatile organic compounds within river sediment and surface water; performance of a health and environmental risk assessment; performance of a feasibility study addressing source area sediment contamination; and performance of bench-scale treatability studies on contaminated sediment to evaluate organic extraction, dechlorination, and incineration technologies.

- Provided consulting services at a chemical manufacturing facility in southeastern Pennsylvania. A remedial investigation and risk assessment have been performed at the site. As part of the site characterization, complex hydrologic conditions, including river/aquifer interactions and hydrologic effects of underground utilities, were evaluated and modeled using a three-dimensional groundwater flow model. The

groundwater model was used to evaluate the effectiveness of various groundwater extraction alternatives.

- Participated in a site feasibility study for hydrologic containment of an industrial landfill in upstate New York; developed a three-dimensional groundwater flow model to evaluate hydrologic effectiveness of proposed remedial alternatives.

- Provided technical support for a geotechnical investigation of a retired fly ash basin in central Pennsylvania; modeled site groundwater conditions to evaluate the hydrologic effectiveness of a slurry trench cutoff wall to retard groundwater and leachate flow from the disposal site.

- Participated in a community relations program for a chemical manufacturing facility where findings of a groundwater study and risk assessment were presented to the residents. Concerns identified in the risk assessment were addressed through implementation of a 48-hour air monitoring program within the residential dwellings.

- Managed a risk assessment for an electronic manufacturing site that had released volatile chemicals to groundwater. The contaminants of concern were freon 113, trichloroethene, and tetrachloroethane. The potential health risks for nearby residential areas were evaluated.

- Managed several site assessments for industrial property transfers in Pennsylvania and New York. Responsibilities have included proposal preparation, coordination of field activities, historic records searches, and report preparation.

- Served as a Task Manager for a hydrogeologic and soils investigation of a coal gasification plant in southeastern Pennsylvania. The study encompassed the implementation of a RCRA compliance groundwater monitoring program and performance of a study to delineate the extent of coal tar contamination in soil as part of RCRA's corrective action program. Mr. Gibson helped design and implement a sampling program utilizing on-site fluorometric methods to get "real time" characterization of coal tar contamination in soil.

AFFILIATIONS

Geological Society of America
American Geophysical Union
Sigma Xi
National Groundwater Association
Minnesota Groundwater Association

JOHN SEYMOUR

geoenvironmental engineering
landfills
slurry walls
project management

EDUCATION

University of Michigan: M.S. Civil Engineering, Soil Mechanics, 1980
Michigan Technological University: B.S. Civil Engineering, 1976

REGISTRATION

Registered Professional Engineer, Michigan, Illinois, Kansas, Wisconsin

PROFESSIONAL HISTORY

Woodward-Clyde Consultants, Staff Engineer to Senior Consultant, 1980-date
Townsend & Bottum Engineering, Inc., Staff Engineer, 1978-1979
Stone & Webster Engineering Corp., Field Engineer, 1976-1978

REPRESENTATIVE PROJECTS

Mr. Seymour has had project management, technical supervisory and field experience in the waste management fields relating to site investigations, remedial investigations, hydrogeologic investigations, feasibility studies, design and implementation of site remedial actions, disposal cell and RCRA facility design, and site closure. He has worked with and is familiar with CERCLA, RCRA and UST regulations and state environmental regulations on numerous projects. He has particular knowledge of Michigan Public Act 307 rules and issues concerning sites of environmental contamination.

Mr. Seymour also has experience on building foundations and landfills in the midwest. He has performed both siting studies and landfill designs covering civil engineering, geotechnical, geology and hydrogeology aspects. Mr. Seymour has worked on design and permitting for below-grade, above-grade, soil-lined and geomembrane-lined landfills and landfill covers. He has also designed and installed groundwater monitoring systems and provided hydrogeology and contaminant transport assessments.

Key management experience includes:

- Rasmussen Landfill - CERCLA predesign and remedial design for Michigan Act 64 landfill cover and groundwater pump and treat system;
- Hartley & Hartley State owned landfill - NRS, SDMP site licensing, leachate managmenet system design;
- Butterworth Landfill - CERCLA RD/RA work plans, negotiations with agencies for predesign studies for design of Michigan Act 641 landfill cover;
- Lucy Road Landfill - Litigation support and expert witness addressing cost allocation and consistency of work with the NCP and Act 307.
- Motor Wheel Disposal Site - CERCLA cost allocation strategy, litigation support.

- Carter Lumber Site - CERCLA litigation support and expert witness for cost allocation.

- Berlin & Farro Liquid Incineration Site - CERCLA RI/FS, baseline risk assessment, negotiations for cleanup;
- National Industrial Environmental Services - CERCLA/RCRA corrective action for groundwater, remedial design for pond closure and RCRA landfills, groundwater modeling, air monitoring, geophysical surveys, annual reporting, Part B permit applications and technical support for two trials;
- Shell Oil WRMC - RCRA corrective action RFI for 19 SWMUs, work plans, implementation of RFI, regulatory interface, Part B permit application;
- Wisconsin Natural Gas - pilot testing, remedial design, construction engineering (including O&M) for a groundwater extraction system and soil gas collection system; and
- McGraw-Edison Facility CERCLA RI, baseline risk assessment and FS for a manufacturing facility in Iowa.

His work plan development and remedial investigation experience includes:

- Preparation of remedial investigation (RI and RFI) work plans to investigate sites located in glacial, alluvial and residual soils, and slightly weathered to unweathered bedrock. Work plan development included identification of the purpose of the RI, writing the work plan and procedures for sampling of waste, soil, groundwater, surface water and air;
- Completion of remedial investigations to investigate waste solids and liquids, surface and subsurface soils, surface and groundwater, air, sediments and biota, including reporting of findings;
- Geotechnical and hydrogeologic site investigations in Illinois, Kansas, Michigan, Montana, Wisconsin and Texas;
- Groundwater pumping tests in Kansas, Michigan, Montana, Wisconsin and Korea, including evaluation of hydrocarbon recovery in a two-phase fluid pumping test; and
- Contaminant transport evaluations and groundwater monitoring plans.

His feasibility study experience includes:

- CERCLA feasibility studies for sites in Michigan and Iowa;
- CERCLA feasibility review for sites in Michigan, Ohio, andWisconsin;
- Evaluation of feasibility study alternatives such as waste removal, treatment and disposal of waste, soil and water; landfill design; groundwater pump and treatment; slurry wall cutoffs; deep well injection of liquids; maintenance of existing landfill units and capping; decommissioning/closure of ponds and sediment removal;
- Treatability studies for groundwater pumping and treatment, and soils solidification;
- Assessment of applicable or relevant and appropriate requirements (ARARs) for CERCLA sites in Michigan and Wisconsin;

- Slurry wall site studies including soil borings, packer permeability testing, geotechnical testing, groundwater flow modeling; and
- Hydrocarbon recovery research and field and laboratory testing for diesel fuel contamination in an unconfined aquifer.

His design project management, or construction and monitoring experience related to remedial alternatives includes:

- Hazardous waste landfill caps and groundwater extraction systems in Michigan and Wisconsin;
- Groundwater extraction well system and artesian relief well design, installation, pump testing, operation and performance monitoring;
- Hazardous waste disposal cell design for landfills below grade and above grade, single-lined and double-lined, and leachate collection system and leak detection system and gas venting system design and operation/monitoring plans;
- Disposal cell liner construction quality assurance plans, including a test fill program and soil and geomembrane liner compatibility studies using leachate;
- Field test fill construction and monitoring for soil liners including field and laboratory testing
- Slurry wall consulting, design and construction inspection in Illinois and Korea and field testing for the evaluation of the effectiveness of a slurry wall cutoff.

His RCRA experience includes:

- Management of a RCRA Facility Investigation (RFI) for a refinery in Illinois along the Mississippi River;
- Revision of a Part B for a refinery in Illinois;
- Preparation of RCRA Part B Permit Application for a TSD in Kansas;
- RCRA Corrective Action RFI Work Plan Review for a facility in Michigan;
- Certifying engineer for closure of a hazardous waste landfill in Michigan;
- Chemical migration and hydrogeologic assessment to establish Alternate Concentration Limits (ACLs) for chemicals in the groundwater;
- Review and revision of RCRA Part B permit application for a treatability research facility.

Mr. Seymour also has experience on many underground storage tank sites in Michigan and Illinois and peer review experience on CERCLA projects in several states.

HONORS

Mr. Seymour was recognized in 1984 by Lucky Development Company for "outstanding professional performance" in consulting for the barrette foundation for the Lucky-Gold Star building, Seoul, Korea.

Woodward-Clyde Consultants selected Mr. Seymour for the Young Professional Award in 1988 in recognition for contributions to WCC.

AFFILIATIONS

American Society of Civil Engineers

PUBLICATIONS

A complete listing of Mr. Seymour's publications is available upon request.